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THE
TRANSACTIONS
OF THE
ROYAL IRISH ACADEMY,
VOL. XV.



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THE ACADEMY desire it to be understood, that they are not answerable for any opinion; representation of facts, or train of reasoning, which may appear in the following Papers. The Authors of the several Essays are alone responsible for their contents.

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The Reader is requested to make the following corrections :

Page.	Line.	
Essay.	Volume.	
3	69	3, <i>for</i> Dec. 3, <i>read</i> Dec. 13.
		11, <i>for</i> upom <i>read</i> upon.
7	73	12, <i>for</i> points <i>read</i> its points.
8	74	3, 4, <i>dele</i> quatain.
		24, <i>after</i> ellipses or hyperbolas at which the density is constant; <i>add</i> the axes of these curves may be considered as natural axes of coordinates.
16	82	2, <i>for</i> cos. ξy , δy <i>read</i> cos. ξy . δy .
		16, <i>for</i> $\frac{d\xi}{dz} = -\cos. \xi x$, <i>read</i> $\frac{d\xi}{dz} = -\cos. \xi z$.
20	86	12, <i>add</i> and each ellipsoid or hyperboloid thus moving will in general have two such envelopes.
22	88	3, <i>after</i> cutting the final rays perpendicularly, <i>add</i> these spheres will also have another envelope, perpendicular to the incident rays.
26	92	23, <i>for</i> $\gamma, \frac{d^2 V}{dx.dz}$, <i>read</i> $\gamma. \frac{d^2 V}{dx.dz}$.
30	96	8, <i>for</i> gives, <i>read</i> give.
31	97	2, <i>for</i> $\frac{d^2 V}{d^2 y}$, <i>read</i> $\frac{d^2 V}{dy^2}$.
32	98	5 from bottom, <i>for</i> a Y, <i>read</i> d Y.
33	29	formula (U), <i>for</i> $\frac{\dots - (dx + pdz)}{\dots - (dy + qdz)}$, <i>read</i> $\frac{\dots - (dy + qdz)}{\dots - (dx + pdz)}$.
35	101	22, <i>for</i> $\xi y't'$, <i>read</i> $\xi y's'$.
37	103	11, <i>for</i> (r.s,t), <i>read</i> (r, s, t).
		24, <i>for</i> dp' , dp' , <i>read</i> dp' , dq' .
39	105	13, insert commas after $\frac{-1}{\xi_1}$ and $\frac{-1}{\xi_2}$.
		in equation of projecting plane, <i>for</i> $z' - \xi^2$ <i>read</i> $z' - \xi_2$.
40	106	9 from bottom, <i>for</i> include, <i>read</i> include nearly.
41	107	4, <i>for</i> (D'), <i>read</i> (E')
43	109	17, <i>for</i> in, <i>read</i> infinite.
		last line, <i>for</i> (VII) <i>read</i> (VI).
45	111	7, <i>add</i> combined with the formulæ of [27.]
		10, <i>for</i> [27.] <i>read</i> [29.]
49	115	9 from bottom, <i>for</i> (C'') <i>read</i> (G'')

Page.	Line.	
Essay.	Volume.	
50	116	19, <i>for</i> $(\alpha, \beta', \gamma')$ <i>read</i> $(\alpha', \beta', \gamma')$.
51	117	12, <i>for</i> these, <i>read</i> those.
52	118	2, <i>for</i> $\frac{d\alpha}{da}$ <i>read</i> $\frac{d\alpha}{da} =$.
		6 from bottom, after the comma <i>add</i> &c.
53	119	12, <i>for</i> from the mirror, <i>read</i> from the perpendicular surface at the mirror.
		19, <i>for</i> given, <i>read</i> given ray.
54	120	18, <i>for</i> (a, β, Y) , <i>read</i> (α, β, Y) .
55	121	formula (O'') , <i>for</i> $\frac{d^2 Y}{da^2}$, <i>read</i> $\frac{d^2 Y}{d\alpha^2}$.
57	123	4, <i>for</i> $\frac{d^2 V}{x^2}$, <i>read</i> $\frac{d^2 V}{dx^2}$.
		6 from bottom, <i>for</i> (xz) , <i>read</i> (yz) .
58	124	3, <i>for</i> R, R'' , <i>read</i> R', R'' .
		7, after parenthesis, <i>add</i> or when the focus is a point of spheric curvature on its own caustic surface.
		19, <i>for</i> β^2 <i>read</i> β_1^2 .
60	126	15, <i>for</i> negative, <i>read</i> negative.
61	127	14, <i>for</i> $\frac{d^3 V}{dy^3} \cdot db^2$, <i>read</i> $\frac{d^3 V}{dy^3} \cdot db^3$.
62	128	6 from bottom, <i>for</i> contract, <i>read</i> contact.
65	131	in formula (M''') , <i>for</i> $(\xi'' - F''_1)$, $(\xi'' - F''_1)$, <i>read</i> $(\xi'' - F''_1)$, $(\xi'' - F''_2)$.
		2 from bottom, <i>for</i> curvature, <i>read</i> curvatures.
67	133	15, <i>for</i> surface, <i>read</i> plane.
70	136	2, <i>for</i> (V'') , <i>read</i> (V''') .
73	139	9 from bottom, <i>for</i> $\iint r.dv$, <i>read</i> $\iint r.dr.dv$.
75	141	in (I''') , <i>for</i> $Q^{(c)}$, <i>read</i> $Q^{(c)}$.
76	142	2 from bottom, <i>for</i> $\varepsilon = 2\xi^2.C^{-1}$, <i>read</i> $\varepsilon = 2\xi_2^2.C^{-1}$.
77	143	6 from bottom, <i>for</i> the negative end, <i>read</i> what may be called the negative end.
91	157	in $(E^{(6)})$, <i>for</i> $[0]^{-(n-\tau)}$, <i>read</i> $[0]^{-(n'-\tau)}$.
93	159	in $(O^{(6)})$, <i>for</i> $[\tau-\tau']^{n-\tau-s+1-\tau'}$, <i>read</i> $[\tau-\tau']^{n'-\tau-s+1-\tau'}$.
103	169	1, <i>for</i> $-\frac{da}{dx} \cdot \frac{da}{dy}$, <i>read</i> $-\frac{da}{dx} \cdot \frac{db}{dy}$.
		in $(L^{(8)})$, <i>for</i> $By - Cx)^2$, <i>read</i> $(By - Cx)^2$.

SCIENCE.

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